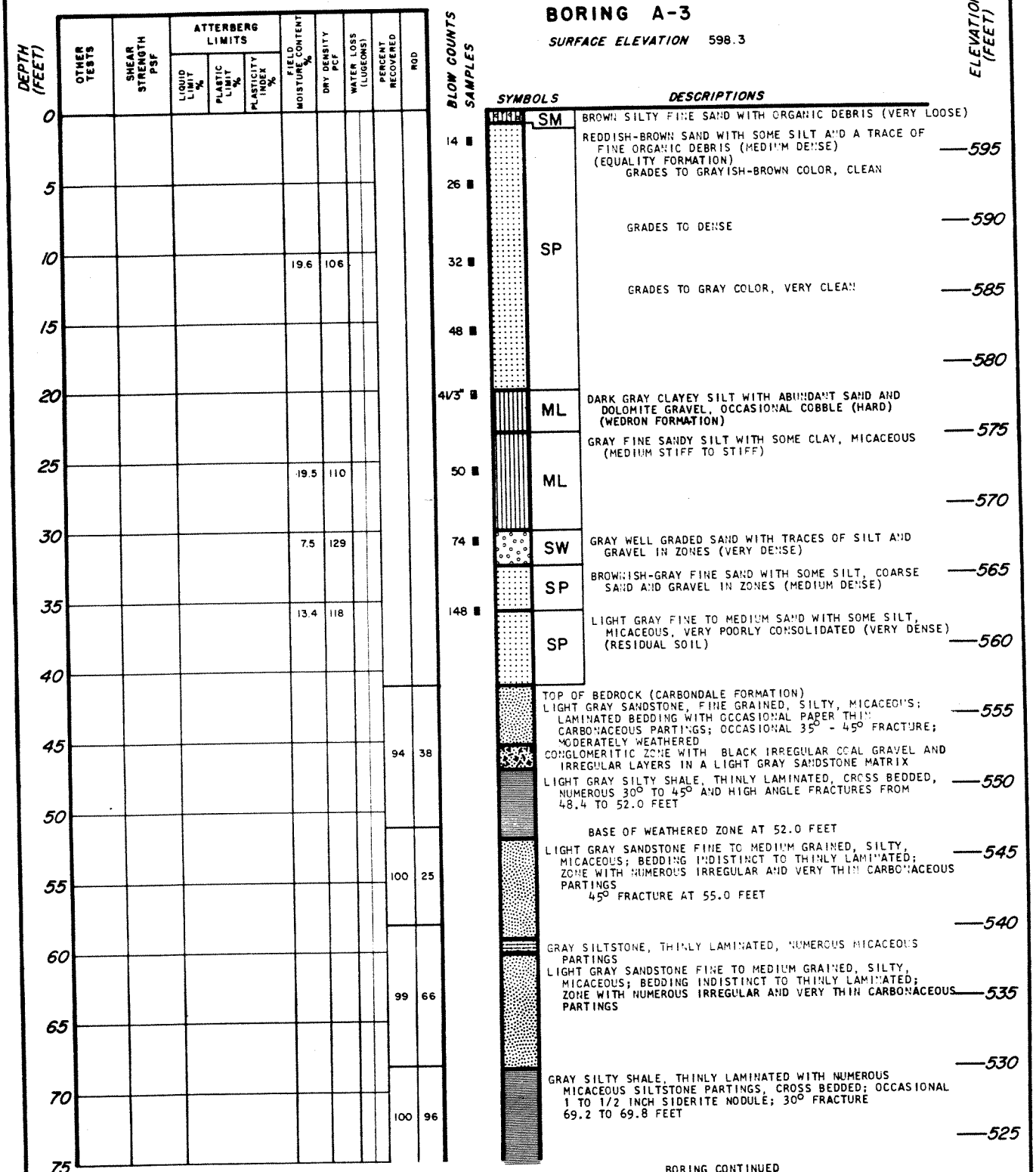
BORING A-3

SURFACE ELEVATION 598.3



BRAIDWOOD STATION
UPDATED FINAL SAFETY ANALYSIS REPORT

FIGURE 2.5-127

LOG OF BORING A-3
(SHEET 1 OF 5)

BORING A-3 CONTINUED

DEPTH (FEET)	OTHER TESTS	SHEAR STRENGTH PSF	ATTERBERG LIMITS: LIQUID LIMIT %	ATTERBERG LIMITS: PLASTIC LIMIT %	ATTERBERG LIMITS: PLASTICITY INDEX %	FIELD MOISTURE CONTENT %	DRY DENSITY PCF	WATER LOSS (LUGEONS)	PERCENT RECOVERED	RQD	SYMBOLS	DESCRIPTIONS	ELEVATION (FEET)
75												30° FRACTURES SPACED 1 INCH AT 75.6 FEET	
												LIGHT GRAY SILTY SANDSTONE, NUMEROUS CARBONACEOUS PLANT FOSSILS, SIDERITE NODULES AT BASE	520
80									100	74		GRAY SILTSTONE, THINLY LAMINATED, IRREGULAR CROSS BEDDING WITH NUMEROUS GRADATIONAL ZONES OF SILTY SAND AND SHALE, OCCASIONAL 1 TO 3 INCH SIDERITE NODULE, OCCASIONAL 45° FRACTURE SPACED 1 TO 3.5 FEET	515
85													
												LIGHT GRAY SILTY SANDSTONE, THINLY LAMINATED WITH NUMEROUS CARBONACEOUS PARTING THROUGHOUT; OCCASIONAL SIDERITE NODULE	510
90									98	68		GRAY SILTSTONE, THINLY LAMINATED WITH NUMEROUS MICACEOUS AND FINE SANDY PARTINGS, SOME 30° TO 45° FRACTURES	505
95													
												GRAY SILTY SANDSTONE, INDISTINCT BEDDING; GRADES SHALEY AND CONGLOMERATIC WITH NUMEROUS SIDERITE NODULES BELOW 98 FEET	500
100									94	76		GRAY SILTSTONE, THINLY LAMINATED, BEDDING GRADES EVEN AND REGULAR GRADES TO SILTY SHALE, EVENLY BEDDED WITH NUMEROUS VERY THIN ALTERNATING LAMINATIONS OF MICACEOUS SILT AND SHALE	495
105													490
110									96	63		BLACK COAL, THIN BEDDED, NUMEROUS TIGHT VERTICAL FRACTURES WITH SOME PYRITE AND CLAY	485
115												LIGHT GRAY CLAY SHALE, HIGHLY FRAGMENTED WITH NUMEROUS SLICKENSIDES THROUGHOUT (SPOON FORMATION) 3 INCH LAYER OF COAL AT 116.7 FEET	
												LIGHT GRAY CLAY SHALE, HIGHLY FRAGMENTED, OCCASIONAL 1/2 TO 1 INCH CARBONACEOUS LAYER	480
120									100	83		6 INCH LAYER OF COAL AT 121.2 FEET BLACK CARBONACEOUS SHALE, FRAGMENTED, SOME NEAR VERTICAL FRACTURES	475
125												15 INCH LAYER OF COAL AT 123.1 FEET GRAY SILTY SHALE, MICACEOUS, THINLY LAMINATED; 45° FRACTURES SPACED 2 TO 6 INCHES FROM 124.3 TO 125.0 FEET	
												LIGHT GREENISH-GRAY SILTSTONE, LAMINATED, HIGHLY MICACEOUS, SANDY IN ZONES	470
130									98	59		BLACK CARBONACEOUS SHALE, FRAGMENTED, NUMEROUS SLICKENSIDES ALONG RANDOM PLANES OF WEAKNESS; 45° AND HIGH ANGLE FRACTURES FROM 131.8 TO 132.7 FEET	465
135												7 INCH LAYER OF COAL AT 135.0 FEET DARK GRAYISH-BROWN SHALE, CARBONACEOUS IN ZONES, FRAGMENTED WITH NUMEROUS SLICKENSIDES	
												GRADES NON CARBONACEOUS, SILTY AT 138.5 FEET	460
140									100	88		GRADES SILTY AT 141.5 FEET, NUMEROUS INTERBEDDED LAMINATIONS OF MICACEOUS SILTSTONE UP TO 1/10 INCH THICK	455
145												GRADES INCREASINGLY CARBONACEOUS BELOW 145.0 FEET NUMEROUS INTERBEDDED PARTINGS UP TO 1/20 INCH THICK	
													450
150												GREENISH-GRAY SILTY SHALE, THINLY LAMINATED, OCCASIONAL MARINE FOSSIL, 45° FRACTURE AT 149.4 FEET (BRAINARD FORMATION) BORING CONTINUED	445

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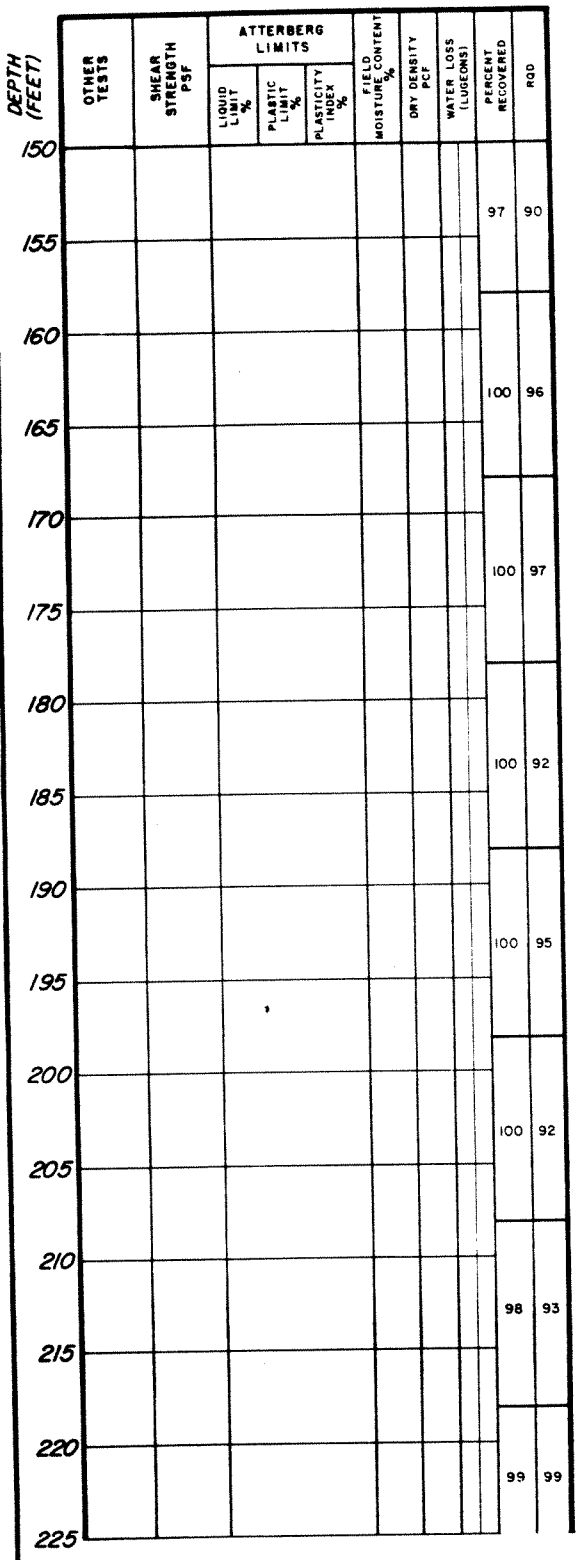
FIGURE 2.5-127

LOG OF BORING A-3
(SHEET 2 OF 5)

BORING A-3 CONTINUED



SYMBOLS

DESCRIPTIONS

ELEVATION (FEET)

GRADES CALCAREOUS AT 153.0 FEET — 445

GRAY SILTY LIMESTONE, FINE TO MEDIUM CRYSTALLINE; INTERBEDDED IRREGULAR PARTINGS AND GRADATIONAL ZONES OF CALCAREOUS SHALE 1/4 TO 2 INCHES THICK SPACED 1 TO 8 INCHES; HIGHLY FOSSILIFEROUS (FORT ATKINSON FORMATION) — 440

— 435

— 430

— 425

GRADES TO LIGHT GRAY LIMESTONE, COARSELY CRYSTALLINE CALCARENITIC; IRREGULAR SHALE PARTINGS IN 1 TO 3 INCH ZONES SPACED 3 TO 12 INCHES; FOSSILIFEROUS — 420

— 415

6 INCH SILTY ZONE; HIGHLY FOSSILIFEROUS 185.0 TO 185.5 FEET

GRADES TO LIGHT BUFF LIMESTONE, VERY PURE, COARSELY CALCARENITIC, THICK BEDDED, OCCASIONAL VERY THIN AND TIGHT STYOLITE; 1/2 INCH CRYSTAL LINED SOLUTION CHANNEL AT 186.0 FEET — 410

— 405

DARK GRAY CALCAREOUS SILTY SHALE, LAMINATED BEDDING; HIGHLY FOSSILIFEROUS; 2 TO 4 INCH ZONES OF BROWN SILTY LIMESTONE SPACED 3 TO 12 INCHES (SCALES FORMATION) — 400

GRADES TO DOLOMITIC SILTY SHALE, LESS FOSSILIFEROUS; 2 TO 6 INCH CALCAREOUS LAYERS SPACED 1 TO 2 FEET, LAMINATED — 395

— 390

— 385

— 380

GRADES TO INTERBEDDED ZONES OF LIGHT GRAY SILTY LIMESTONE 7 TO 18 INCHES THICK SPACED 1 TO 5 FEET, FINE TO COARSELY CRYSTALLINE, CALCARENITIC AND FOSSILIFEROUS IN ZONES — 375

BORING CONTINUED — 370

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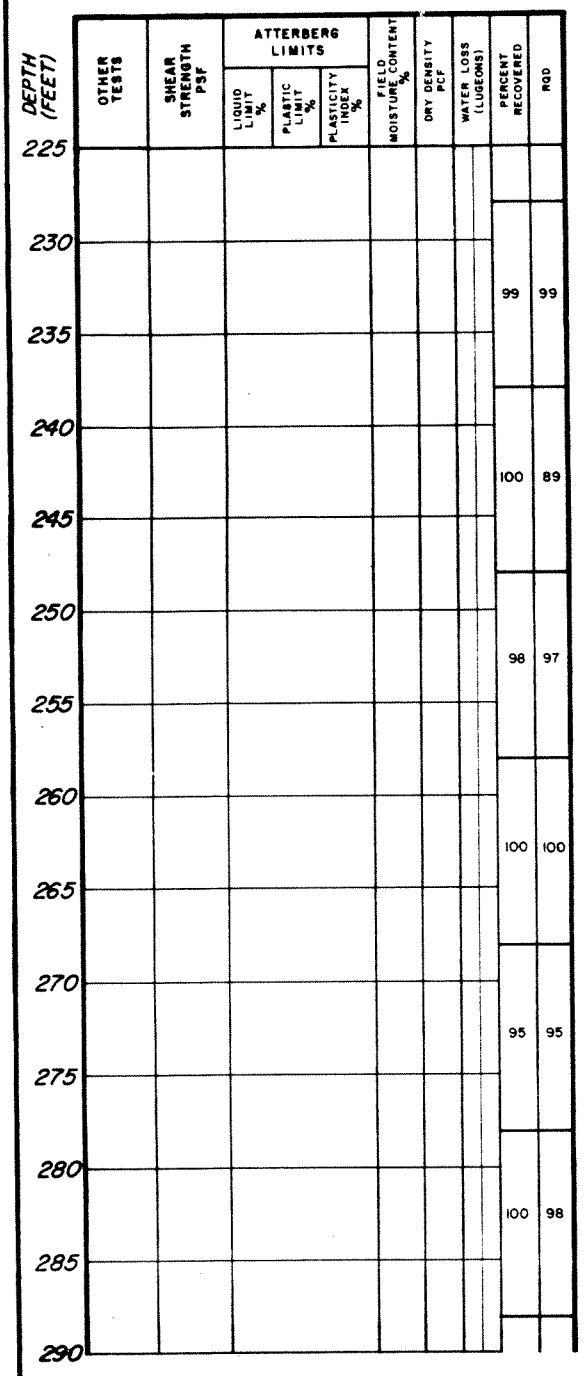
FIGURE 2.5-127

LOG OF BORING A-3
(SHEET 3 OF 5)

BORING A-3 CONTINUED



DESCRIPTIONS

INTERBEDDED SILTY LIMESTONE GRADES OUT

DARK GRAY CLAYEY SHALE; HIGHLY FRACTURED WITH NUMEROUS SLICKENSIDES 238.9 TO 239.3 FEET

GRADES PYRITIC AT 282.0 FEET

MOTTLED LIGHT GRAY TO BUFF DOLOMITIC LIMESTONE, FINE TO MEDIUM CRYSTALLINE, GRADES FOSSILIFEROUS AND CALCARENITIC IN ZONES, ARGILLACEOUS; THIN BEDDED WITH NUMEROUS IRREGULAR HAIR LINE PARTINGS OF SHALE SPACED 1/4 TO 4 INCHES; OCCASIONAL 1/2 TO 1 INCH VUG WITH CALCITE FILLING, TIGHT; NO FRACTURES OBSERVED IN CORE (WISE LAKE - DUNLEITH FORMATIONS)

BORING CONTINUED

ELEVATION (FEET)

370
365
360
355
350
345
340
335
330
325
320
315
310
305

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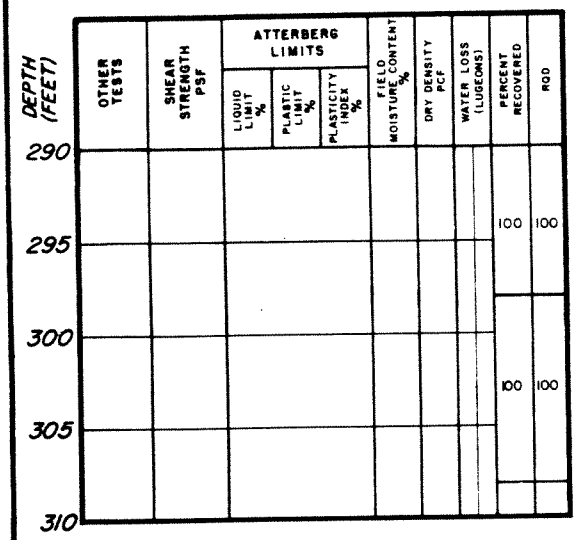
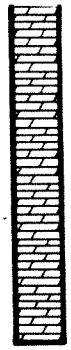
FIGURE 2.5-127

LOG OF BORING A-3
(SHEET 4 OF 5)

BORING A-3 CONTINUED



SYMBOLS



DESCRIPTIONS

1/2 INCH ISOLATED VUG WITH CALCITE CRYSTALS AT 305 FEET

BORING COMPLETED AT 308.0 FEET ON 9-27-72

ELEVATION (FEET)

305
300
295
290
285

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FIGURE 2.5-127

LOG OF BORING A-3
(SHEET 5 OF 5)